

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A channel selection device used in a digital/analog broadcasting receiver comprising:

a receiver for receiving an encoded digital/analog broadcasting signal originated from a broadcasting station;

a digital/analog decoder for decoding the digital/analog broadcasting signal received from the receiver and then outputting the signal to a display;

a memory for storing, as a channel map, channel information contained in the broadcasting signal decoded by the digital decoder;

a control unit for controlling the sections of the receiver such that, upon reception of the channel selection instruction from the input device, the receiver receives the broadcasting signal of a selected channel; and

an input device for inputting a user's instruction for channel selection to the control unit,

wherein the receiver receives the digital broadcast and an analog broadcast which are originated through different physical channels, the

digital broadcasting signal having, in one main channel, one or a plurality of sub-channels for originating contents therethrough and also having a VCT (Virtual Channel Table) containing virtual channel information providing the sub-channels with a correlation with an analog broadcasting physical channel,

~~wherein the control unit, when trying to select a channel based on a channel upward/downward changing instruction sent from the input device, appropriately uses any one of the following four techniques of:~~

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when there is no channel information in the memory a first technique is employed in which , ~~by which when there is no channel information in the memory,~~ the frequency is shifted to search for a desired physical channel to thereby select a channel contained in a detected physical channel and also store information of the channel in the channel map;

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when there is channel information of a current physical channel in the memory a second technique is employed in which , ~~by which when there is channel information of a current physical channel in the memory,~~ a VCT thereof is referenced to select a sub-channel in the physical channel;

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when a channel to which the current channel is upward/downward changed by the second technique goes out of the current physical channel range a third technique, by which is the first technique is employed ~~when a channel to which the current channel is upward/downward changed by the second technique goes out of the current physical channel range; and~~

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when information of all the channels is stored in the channel map in the memory a fourth technique is employed in which either ~~, by which when information of all the channels is stored in the channel map in the memory, it is taken either a method of selecting~~

a desired channel is selected by ~~in~~ referring to the channel map, or

~~a method of selecting~~ a desired channel is selected based on the physical channel information in the channel map among the channels over a plurality of physical channels and of employing the second technique of selecting a desired channel among the channels in the same physical channel.

2. (Currently Amended) A channel selection device used in a digital/analog broadcasting receiver comprising:

a receiver for receiving an encoded digital/analog broadcasting signal originated from a broadcasting station;

a digital/analog decoder for decoding the digital/analog broadcasting signal received from the receiver and then outputting the signal to a display;

a memory for storing, as a channel map, channel information contained in the broadcasting signal decoded by the digital decoder;

a control unit for controlling the sections of the receiver such that, upon reception of the channel selection instruction from the input device, the receiver receives the broadcasting signal of a selected channel; and

an input device for inputting a user's instruction for channel selection to the control unit,

wherein the receiver receives the digital broadcast and an analog broadcast which are originated through different physical channels, the digital broadcasting signal having, in one main channel, one or a plurality of sub-channels for originating contents therethrough and also having a VCT (Virtual Channel Table) containing virtual channel information providing the sub-channels with a correlation with an analog broadcasting physical channel,

~~wherein the control unit, when trying to select a channel based on a~~

~~channel upward/downward changing instruction sent from the input device,  
appropriately uses any one of the following four techniques of:~~

wherein when trying to select a channel based on a channel  
upward/downward changing instruction received from the input device and when  
there is no channel information in the memory a first technique is employed in  
which , ~~by which when there is no channel information in the memory,~~ the  
frequency is shifted to search for a desired physical channel to thereby select a  
channel contained in a detected physical channel and also store information of  
the channel in the channel map;

wherein when trying to select a channel based on a channel  
upward/downward changing instruction received from the input device and when  
there is channel information of a current physical channel in the memory a  
second technique is employed in which , ~~by which when there is channel  
information of a current physical channel in the memory,~~ a VCT thereof is  
referenced to select a sub-channel in the physical channel;

wherein when trying to select a channel based on a channel  
upward/downward changing instruction received from the input device and when  
a channel to which the current channel is upward/downward changed by the  
second technique goes out of the current physical channel range a third  
technique , ~~by which is the first technique is employed when a channel to which  
the current channel is upward/downward changed by the second technique goes~~

~~out of the current physical channel range; and~~

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when information of all the channels is stored in the memory a fourth technique is employed in which ~~, by which when information of all the channels is stored in the memory,~~ a desired channel is selected on the basis of the physical channel information in the channel map among the channels over a plurality of physical channels and, it is selected by the second technique among the channels in the same physical channel.

3. (Currently Amended) A channel selection device used in a digital/analog broadcasting receiver comprising:

a receiver for receiving an encoded digital/analog broadcasting signal originated from a broadcasting station;

a digital/analog decoder for decoding the digital/analog broadcasting signal received from the receiver and then outputting the signal to a display;

a memory for storing, as a channel map, channel information contained in the broadcasting signal decoded by the digital decoder;

a control unit for controlling the sections of the receiver such that, upon reception of the channel selection instruction from the input device, the

receiver receives the broadcasting signal of a selected channel; and

an input device for inputting a user's instruction for channel selection to the control unit,

wherein the receiver receives the digital broadcast and an analog broadcast which are originated through different physical channels, the digital broadcasting signal having, in one main channel, one or a plurality of sub-channels for originating contents therethrough and also having a VCT (Virtual Channel Table) containing virtual channel information providing the sub-channels with a correlation with an analog broadcasting physical channel,

wherein the control unit, when trying to select a channel based on a channel upward/downward changing instruction sent from the input device, appropriately uses any one of the following four techniques of:

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when there is no channel information in the memory a first technique is employed in which , ~~by which when there is no channel information in the memory,~~ the frequency is shifted to search for a desired physical channel to thereby select a channel contained in a detected physical channel and also store information of the channel in the channel map;

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when

there is channel information of a current physical channel in the memory a  
second technique is employed in which , ~~by which when there is channel~~  
~~information of a current physical channel in the memory,~~ a VCT thereof is  
referenced to select a sub-channel in the physical channel;

wherein when trying to select a channel based on a channel  
upward/downward changing instruction received from the input device and when  
a channel to which the current channel is upward/downward changed by the  
second technique goes out of the current physical channel range a third  
technique , ~~by which~~ is the first technique is employed ~~when a channel to which~~  
~~the current channel is upward/downward changed by the second technique goes~~  
~~out of the current physical channel range;~~ and

wherein when trying to select a channel based on a channel  
upward/downward changing instruction received from the input device and when  
information of all the channels is stored in the memory a fourth technique is  
employed in which , ~~by which when information of all the channels is stored in~~  
~~the memory,~~ a desired channel is selected by referring to the channel map.

4. (Canceled)

5. (Original) The digital/analog broadcasting receiver equipped with



the channel selection device according to claim 1, for receiving a digital broadcast according to the ATSC (Advanced Television Systems Committee) standard and an analog broadcast according to the NTSC (National Television Systems Committee) standard.

6. (Currently Amended) A channel selection device used in a digital/analog broadcasting receiver comprising:

a receiver for receiving an encoded digital/analog broadcasting signal originated from a broadcasting station;

a digital/analog decoder for decoding the digital/analog broadcasting signal received from the receiver and then outputting the signal to a display;

a memory for storing, as a channel map, channel information contained in the broadcasting signal decoded by the digital decoder;

a control unit for controlling the sections of the receiver such that, upon reception of the channel selection instruction from the input device, the receiver receives the broadcasting signal of a selected channel; and

an input device for inputting a user's instruction for channel selection to the control unit,

wherein the receiver receives the digital broadcast and an analog

broadcast which are originated through different physical channels, the digital broadcasting signal having, in one physical channel (main channel), one or a plurality of sub-channels for originating contents therethrough and also having a VCT (Virtual Channel Table) containing virtual channel information providing the sub-channels with a correlation with an analog broadcasting physical channel,

~~wherein the control unit, when trying to select a channel based on a channel upward/downward changing instruction sent from the input device, selects a desired channel by selectively using any one of the following first through fourth procedures corresponding to the channel changing contents and how the data table containing the VCT is held in the memory:~~

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when the sub-channel is changed in the current main channel a first procedure is employed in which , ~~by which when the sub-channel is changed in the current main channel,~~ the VCT in the current physical channel is referenced to select an upward/downward sub-channel;

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when a main channel is to be changed and if there is no channel data of a main channel to which the current main channel is to be changed and the sub-channel

a second procedure is employed in which ~~, by which when a main channel is to be changed and if there is no channel data of a main channel to which the current main channel is to be changed and the sub-channel,~~ the reception frequency is shifted upward/downward to thereby search for other physical channels and then refers to the VCT of a detected physical channel, thus selecting a sub-channel having the largest/smallest sub-channel number;

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when a main channel is to be changed and if there is the channel data of the main channel to which the current main channel is to be changed and there is no sub-channel data a third procedure is employed in which ~~, by which when a main channel is to be changed and if there is the channel data of the main channel to which the current main channel is to be changed and there is no sub-channel data,~~ the main channel data is referenced to change the main channel and then refers to the VCT detected in the corresponding physical channel, thus selecting a sub-channel having the largest/smallest sub-channel number; and

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when a main channel is to be changed and there is the channel data of a main channel to which the current main channel is to be changed and the sub-channel a fourth procedure is employed in which ~~, by which when a main channel is to be changed and there is the channel data of a main channel to which the current main~~

~~channel is to be changed and the sub-channel,~~ the channel data is referenced to change the main channel and the sub-channel, thus selecting the channel.

7. (Currently Amended) A channel selection device used in a digital/analog broadcasting receiver comprising:

a receiver for receiving an encoded digital/analog broadcasting signal originated from a broadcasting station;

a digital/analog decoder for decoding the digital/analog broadcasting signal received from the receiver and then outputting the signal to a display;

a memory for storing, as a channel map, channel information contained in the broadcasting signal decoded by the digital decoder;

a control unit for controlling the sections of the receiver such that, upon reception of the channel selection instruction from the input device, the receiver receives the broadcasting signal of a selected channel; and

an input device for inputting a user's instruction for channel selection to the control unit,

wherein the receiver receives the digital broadcast and an analog broadcast which are originated through different physical channels, the digital broadcasting signal having, in one physical channel (main channel), one or a

plurality of sub-channels for originating contents therethrough and also having a VCT (Virtual Channel Table) containing virtual channel information providing the sub-channels with a correlation with an analog broadcasting physical channel,

~~wherein the control unit, when trying to select a channel based on a channel upward/downward changing instruction sent from the input device, selects a desired channel by selectively using any one of the following procedures:~~

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when a sub-channel in the current main channel is to be changed referring to the VCT contained in the current physical channel is referenced to change the sub-channel ~~when a sub-channel in the current main channel is to be changed;~~

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when a main channel is to be changed and there is no channel data of the main channel and the sub-channel ~~searching for other physical channels to refer to a detected VCT are searched for, thus changing the sub-channel when a main channel is to be changed, and when there is no channel data of the main channel and the sub-channel;~~

wherein when trying to select a channel based on a channel upward/downward changing instruction received from the input device and when

there is the main channel data but not the sub-channel data ~~referring to the~~  
main channel data is referenced to change the main channel and referring to the  
corresponding VCT, thus changing the sub-channel ~~when there is the main~~  
~~channel data but not the sub-channel data~~; and

wherein when trying to select a channel based on a channel  
upward/downward changing instruction received from the input device and when  
there is the channel data of the main channel and the sub-channel ~~referring to~~  
the channel data is referenced to change each of the channels ~~when there is the~~  
~~channel data of the main channel and the sub-channel~~.

8. (Original) The digital/analog broadcasting receiver equipped with  
the channel selection device according to claim 6, for receiving a digital broadcast  
according to the ATSC (Advanced Television Systems Committee) standard and  
an analog broadcast according to the NTSC (National Television Systems  
Committee) standard.